Application No.: 10/774,535 Reply dated July 19, 2006 Response to Office Action mailed April 19, 2006

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously Presented) An image display, comprising:

a display panel including a plurality of pixels arranged in a matrix pattern, a plurality of first electrodes individually formed corresponding to the pixels, a second electrode formed in common with the first electrodes, a plurality of light emitting elements provided between the first electrode and the second electrode and including a light emitting layer, and a plurality of transistors provided corresponding to the pixels and connected between the first electrodes and a power supply voltage line for controlling the current supply to the EL elements;

a scan driver for sequentially selecting respective pixel lines;

a data driver for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and

a display controller for using a current value fed back from the second electrode of the display panel and externally input RGB data to correct a white gray level of the RGB data and generate RGB display data, and for providing the generated RGB display data to the data driver,

wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel.

2. (Original) The image display of claim 1, wherein the display controller comprises:

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a current voltage converter for outputting a voltage having a level corresponding to the

current fed back from the second electrode of the display panel;

an operation controller for detecting the total amount of the emitted light according to the

intensity of the voltage input by the current voltage converter, generating a brightness control

reference signal corresponding to the amount of the emitted light, and outputting the brightness

control reference signal;

a data voltage ratio controller for amplifying the brightness control reference signal input

by the operation controller to generate a white gray level control signal for each color of RGB,

and output the signal; and

a voltage amplifier for amplifying the RGB data, receiving the white gray level control

signal, controlling a driving voltage of an amplifier, and controlling a fluctuation height of the

white gray level of the RGB data to generate and output RGB display data.

3. (Previously Presented) The image display of claim 1, wherein the current fed back

from the display panel is a summation of currents flowing to the second electrode from the first

electrodes of the respective pixels.

4. (Original) The image display of claim 2, wherein the operation controller generates a

brightness control reference signal for controlling the brightness to reduce the fluctuation height

of the white gray level of the RGB data when the amount of the emitted light on the screen is

greater than a predetermined reference value, and generates a brightness control reference

signal for controlling the brightness to increase the fluctuation height of the white gray level of

the RGB data when the amount of the emitted light on the screen is less than the predetermined

reference value.

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5. (Original) The image display of claim 2, wherein the data voltage ratio controller

includes three operational amplifiers for respectively processing the brightness control reference

signal of the RGB data.

6. (Original) The image display of claim 2, wherein the data voltage amplifier includes

three operational amplifiers for processing the RGB data by respectively receiving RGB data

and a corresponding brightness control reference signal to control the fluctuation height of the

white gray level of the RGB data and generating RGB display signals.

7. (Previously Presented) An image display, comprising:

a display panel including a plurality of pixels arranged in a matrix pattern, a plurality of

first electrodes individually formed corresponding to the pixels, a plurality of second electrodes

commonly formed for a plurality of groups defined by defining the first electrodes as the groups,

a plurality of light emitting elements provided between the first electrode and the second

electrode and including a light emitting layer, and a plurality of transistors provided

corresponding to the pixels and connected between the first electrodes and a power supply

voltage line for controlling the current supply to the EL elements;

a scan driver for sequentially selecting respective pixel lines;

a data driver for applying an RGB display signal corresponding to a pixel line of the

display panel each time the pixel line is selected; and

a display controller for using a current value fed back from at least one second electrode

of the display panel and externally input RGB data to correct a white gray level of the RGB data

and to generate RGB display data, and for providing the generated RGB display data to the

data driver,

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wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level of the RGB data according to the brightness control reference signal to control the brightness of the display panel.

8. (Previously Presented) A method for driving an image display, comprising: sequentially selecting respective pixel lines;

applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and

using a current value fed back from the second electrode of the display panel and externally input RGB data to correct a white gray level of the RGB data and generate RGB display data, and to provide the generated RGB display data to a data driver.

- 9. (Previously Presented) An image display, comprising:
- a display panel including a plurality of pixels arranged in a matrix pattern;
- a scan driver for sequentially selecting respective pixel lines;
- a data driver for applying an RGB display signal corresponding to a pixel line of the display panel each time the pixel line is selected; and

a display controller for using a current value fed back from an electrode of the display panel and externally input RGB data to correct a white gray level of the RGB data and generate RGB display data, and for providing the generated RGB display data to the data driver,

wherein the display controller determines an amount of emitted light on the corresponding screen according to the fed back current to generate a brightness control reference signal corresponding to the amount of emitted light, and controls the white gray level

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of the RGB data according to the brightness control reference signal to control the brightness of

the display panel.

10. (Previously Presented) The image display of claim 9, wherein the display controller

comprises:

a current voltage converter for outputting a voltage having a level corresponding to the

current fed back from the display panel;

an operation controller for detecting the total amount of the emitted light according to the

intensity of the voltage input by the current voltage converter, generating a brightness control

reference signal corresponding to the amount of the emitted light, and outputting the brightness

control reference signal;

a data voltage ratio controller for amplifying the brightness control reference signal input

by the operation controller to generate a white gray level control signal for each color of RGB,

and output the signal; and

a voltage amplifier for amplifying the RGB data, receiving the white gray level control

signal, controlling a driving voltage of an amplifier, and controlling a fluctuation height of the

white gray level of the RGB data to generate and output RGB display data.

11. (Previously Presented) The image display of claim 9, wherein the current fed back

from the electrode of the display panel is a summation of currents flowing to a second electrode

from one or more first electrodes that each correspond to a respective pixel.

12. (Previously Presented) The image display of claim 10, wherein the operation

controller generates a brightness control reference signal for controlling the brightness to reduce

the fluctuation height of the white gray level of the RGB data when the amount of the emitted

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light on the screen is greater than a predetermined reference value, and generates a brightness

control reference signal for controlling the brightness to increase the fluctuation height of the

white gray level of the RGB data when the amount of the emitted light on the screen is less than

the predetermined reference value.

13. (Previously Presented) The image display of claim 10, wherein the data voltage

ratio controller includes three operational amplifiers for respectively processing the brightness

control reference signal of the RGB data.

14. (Previously Presented) The image display of claim 10, wherein the data voltage

amplifier includes three operational amplifiers for processing the RGB data by respectively

receiving RGB data and a corresponding brightness control reference signal to control the

fluctuation height of the white gray level of the RGB data and generating RGB display signals.

15. (Previously Presented) A method for driving an image display, comprising:

sequentially selecting respective pixel lines;

applying an RGB display signal corresponding to a pixel line of the display panel each

time the pixel line is selected; and

using a current value fed back from an electrode of a display panel and externally input

RGB data to correct a white gray level of the RGB data and generate RGB display data, and to

provide the generated RGB display data to a data driver.

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